

L13 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1976:64213 CAPLUS  
 DN 84:64213  
 ED Entered STN: 12 May 1984  
 TI Intermetallic compounds from metal oxides and metals  
 IN Kando, Katsumi; Noda, Fumiyoshi; Tsuzuki, Yoshihiro; Suzuki, Toshiharu  
 PA Toyota Motor Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 INCL 10A323  
 CC 56-3 (Nonferrous Metals and Alloys)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 50036302	A2	19750405	JP 1973-87011	19730802 <--
	JP 53041630	B4	19781106		
PRAI	JP 1973-87011	A	19730802		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 50036302	INCL 10A323	

AB Intermetallic compds. are made by igniting powdered mixts. of metal oxides and metals with a spark plug in an oxidation or reduction atmospheric to initiate their exothermic reaction. The intermetallic compds. have good sinterability and are used for manufacture of high-strength parts. Thus, NiO (<250 mesh) was mixed with 30% Al (<200 mesh) for 24 hr, ignited by spraying with propane gas over a spark plug, which sparks at 900 times/min, and filtered to obtain (1-15μ) Ni3Al [12003-81-5] powder containing trace Ni.

ST nickel aluminum intermetallic compd; intermetallic compd powder manuf

IT 12003-81-5

RL: USES (Uses)

(powdered, by ignition of aluminum with nickel oxide)

RN 12003-81-5

L13 ANSWER 2 OF 3 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN  
 AN 1976-60353X [32] WPIX  
 TI Intermetallic cpds. with good sinterability - obtd. by igniting powder mixts. of metal oxides and metals with spark plug.  
 DC M26 P53  
 PA (TOYT) TOYOTA JIDOSHA KK  
 CYC 1  
 PI JP 50036302 A 19750405 (197632)\* <--  
 JP 53041630 B 19781106 (197848)  
 PRAI JP 1973-87011 19730802  
 IC B22F009-00; C22C001-02  
 AB JP 50036302 A UPAB: 19930901  
 Intermetallic compds. are made by igniting powdered mixts. of metal oxides and metals with a spark plug in an oxidation or reduction atmospheric to initiate their exothermic reaction. The intermetallic compds. have good sinterability and are used for manu. of high-strength parts. In an example, NiO (<250 mesh) was mixed with 30% Al (<200 mesh) for 24 hr., ignited by spraying with propane gas over a spark plug, which sparks at 900 times/min., and filtered to obtain (1-15 mu) Ni3Al powder containing trace Ni.

FS CPI GMPI  
 FA AB  
 MC CPI: M26-A

L13 ANSWER 3 OF 3 JAPIO (C) 2005 EPO on STN  
AN 1975-036302 JAPIO  
PI **JP 50036302** A 19750405 Showa  
AI JP 1973-87011 (JP4887011 Showa) 19730802  
PRAI JP 1973-87011 19730802  
SO INPADOC  
IC ICM C22C001-00

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